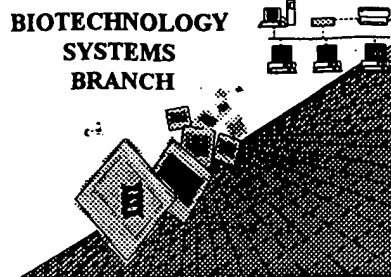


RAW SEQUENCE LISTING
ERROR REPORT

PCR/EP99/03951



Procter

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/700,906

Source: PCR/09

Date Processed by STIC: 4/5/2001

5000

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The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/700,906

DATE: 04/05/2001
TIME: 11:50:54

Input Set: I700906.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Forschungszentrum Borstel
2 <120> TITLE OF INVENTION: Antisense-Oligonukleotide zur Behandlung von
3 proliferierenden Zellen
4 <130> FILE REFERENCE: P50303
5 <140> CURRENT APPLICATION NUMBER: US/09/700,906
6 <141> CURRENT FILING DATE: 2001-02-26
7 <150> EARLIER APPLICATION NUMBER: DE 198 22 954.2
8 <151> EARLIER FILING DATE: 1998-05-22
9 <160> NUMBER OF SEQ ID NOS: 3
10 <170> SOFTWARE: PatentIn Vers. 2.0
11 <210> SEQ ID NO 1
12 <211> LENGTH: 12493
13 <212> TYPE: DNA
14 <213> ORGANISM: Homo sapiens
15 <220> FEATURE:
16 <221> NAME/KEY: CDS
17 <222> LOCATION: (197)..(9964)
18 <400> SEQUENCE: 1
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21 aatttgcttc tggccttccc ctacggatta tacctggcct tcccctacgg attatactca 180
22 acttactgtt tagaaa atg tgg ccc acg aga cgc ctg gtt act atc aaa agg 232
23 Met Trp Pro Thr Arg Arg Leu Val Thr Ile Lys Arg
24 1 5 10
25 agc ggg gtc gac ggt ccc cac ttt ccc ctg agc ctc agc acc tgc ttg 280
26 Ser Gly Val Asp Gly Pro His Phe Pro Leu Ser Leu Ser Thr Cys Leu
27 15 20 25
28 ttt gga agg ggt att gaa tgt gac atc cgt atc cag ctt cct gtt gtg 328
29 Phe Gly Arg Gly Ile Glu Cys Asp Ile Arg Ile Gln Leu Pro Val Val
30 30 35 40
31 tca aaa caa cat tgc aaa gtt gaa atc cat gag cag gag gca ata tta 376
32 Ser Lys Gln His Cys Lys Val Glu Ile His Glu Gln Glu Ala Ile Leu
33 45 50 55 60
34 cat aat ttc agt tcc aca aat cca aca caa gta aat ggg tct gtt att 424
35 His Asn Phe Ser Ser Thr Asn Pro Thr Gln Val Asn Gly Ser Val Ile
36 65 70 75
37 gat gag cct gta cgg cta aaa cat gga gat gta ata act att att gat 472
38 Asp Glu Pro Val Arg Leu Lys His Gly Asp Val Ile Thr Ile Ile Asp
39 80 85 90
40 cgt tcc ttc agg tat gaa aat gaa agt ctt cag aat gga agg aag tca 520
41 Arg Ser Phe Arg Tyr Glu Asn Glu Ser Leu Gln Asn Gly Arg Lys Ser
42 95 100 105
43 act gaa ttt cca aga aaa ata cgt gaa cag gag cca gca cgt cgt gtc 568
44 Thr Glu Phe Pro Arg Lys Ile Arg Glu Gln Glu Pro Ala Arg Arg Val

*use English for a U.S.
application*

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/700,906

DATE: 04/05/2001

TIME: 11:50:54

Input Set: I700906.RAW

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49	aag gcc tat tca aaa atc act gaa gga aaa gtt tca gga aat cct cag	664		
50	Lys Ala Tyr Ser Lys Ile Thr Glu Gly Lys Val Ser Gly Asn Pro Gln			
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52	gta cat atc aag aat gtc aaa gaa gac agt acc gca gat gac tca aaa	712		
53	Val His Ile Lys Asn Val Lys Glu Asp Ser Thr Ala Asp Asp Ser Lys			
54	160	165	170	
55	gac agt gtt gct cag gga aca act aat gtt cat tcc tca gaa cat gct	760		
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57	175	180	185	
58	gga cgt aat ggc aga aat gca gct gat ccc att tct ggg gat ttt aaa	808		
59	Gly Arg Asn Gly Arg Asn Ala Ala Asp Pro Ile Ser Gly Asp Phe Lys			
60	190	195	200	
61	gaa att tcc agc gtt aaa tta gtg agc cgt tat gga gaa ttg aag tct	856		
62	Glu Ile Ser Ser Val Lys Leu Val Ser Arg Tyr Gly Glu Leu Lys Ser			
63	205	210	215	220
64	gtt ccc act aca caa tgt ctt gac aat agc aaa aaa aat gaa tct ccc	904		
65	Val Pro Thr Thr Gln Cys Leu Asp Asn Ser Lys Lys Asn Glu Ser Pro			
66	225	230	235	
67	ttt tgg aag ctt tat gag tca gtg aag aaa gag ttg gat gta aaa tca	952		
68	Phe Trp Lys Leu Tyr Glu Ser Val Lys Lys Glu Leu Asp Val Lys Ser			
69	240	245	250	
70	caa aaa gaa aat gtc cta cag tat tgt aga aaa tct gga tta caa act	1000		
71	Gln Lys Glu Asn Val Leu Gln Tyr Cys Arg Lys Ser Gly Leu Gln Thr			
72	255	260	265	
73	gat tac gca aca gag aaa gaa agt gct gat ggt tta cag ggg gag acc	1048		
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76	caa ctg ttg gtc tgc cgt aag tca aga cca aaa tct ggt ggg agc ggc	1096		
77	Gln Leu Leu Val Ser Arg Lys Ser Arg Pro Lys Ser Gly Gly Ser Gly			
78	285	290	295	300
79	cac gct gtg gca gag cct gct tca cct gaa caa gag ctt gac cag aac	1144		
80	His Ala Val Ala Glu Pro Ala Ser Pro Glu Gln Glu Leu Asp Gln Asn			
81	305	310	315	
82	aag ggg aag gga aga gac gtg gag tct gtt cag act ccc agc aag gct	1192		
83	Lys Gly Lys Gly Arg Asp Val Glu Ser Val Gln Thr Pro Ser Lys Ala			
84	320	325	330	
85	gtg ggc gcc agc ttt cct ctc tat gag ccg gct aaa atg aag acc cct	1240		
86	Val Gly Ala Ser Phe Pro Leu Tyr Glu Pro Ala Lys Met Lys Thr Pro			
87	335	340	345	
88	gta caa tat tca cag caa caa aat tct cca caa aaa cat aag aac aaa	1288		
89	Val Gln Tyr Ser Gln Gln Gln Asn Ser Pro Gln Lys His Lys Asn Lys			
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91	gac ctg tat act act ggt aga aga gaa tct gtg aat ctg ggt aaa agt	1336		
92	Asp Leu Tyr Thr Thr Gly Arg Arg Glu Ser Val Asn Leu Gly Lys Ser			
93	365	370	375	380
94	gaa ggc ttc aag gct ggt gat aaa act ctt act ccc agg aag ctt tca	1384		

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Input Set: I700906.RAW

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98	Thr Arg Asn Arg Thr Pro Ala Lys Val Glu Asp Ala Ala Asp Ser Ala	
99		400 405 410
100	act aag cca gaa aat ctc tct tcc aaa acc aga gga agt att cct aca	1480
101	Thr Lys Pro Glu Asn Leu Ser Ser Lys Thr Arg Gly Ser Ile Pro Thr	
102		415 420 425
103	gat gtg gaa gtt ctg cct acg gaa act gaa att cac aat gag cca ttt	1528
104	Asp Val Glu Val Leu Pro Thr Glu Thr Glu Ile His Asn Glu Pro Phe	
105		430 435 440
106	tta act ctg tgg ctc act caa gtt gag agg aag atc caa aag gat tcc	1576
107	Leu Thr Leu Trp Leu Thr Gln Val Glu Arg Lys Ile Gln Lys Asp Ser	
108		445 450 455 460
109	ctc agc aag cct gag aaa ttg ggc act aca gct gga cag atg tgc tct	1624
110	Leu Ser Lys Pro Glu Lys Leu Gly Thr Thr Ala Gly Gln Met Cys Ser	
111		465 470 475
112	ggg tta cct ggt ctt agt tca gtt gat atc aac aac ttt ggt gat tcc	1672
113	Gly Leu Pro Gly Leu Ser Ser Val Asp Ile Asn Asn Phe Gly Asp Ser	
114		480 485 490
115	att aat gag agt gag gga ata cct ttg aaa aga agg cgt gtg tcc ttt	1720
116	Ile Asn Glu Ser Glu Gly Ile Pro Leu Lys Arg Arg Arg Val Ser Phe	
117		495 500 505
118	ggt ggg cac cta aga cct gaa cta ttt gat gaa aac ttg cct cct aat	1768
119	Gly Gly His Leu Arg Pro Glu Leu Phe Asp Glu Asn Leu Pro Pro Asn	
120		510 515 520
121	acg cct ctc aaa agg gga gaa gcc cca acc aaa aga aag tct ctg gta	1816
122	Thr Pro Leu Lys Arg Gly Glu Ala Pro Thr Lys Arg Lys Ser Leu Val	
123		525 530 535 540
124	atg cac act cca cct gtc ctg aag aaa atc atc aag gaa cag cct caa	1864
125	Met His Thr Pro Pro Val Leu Lys Lys Ile Ile Lys Glu Gln Pro Gln	
126		545 550 555
127	cca tca gga aaa caa gag tca ggt tca gaa atc cat gtg gaa gtg aag	1912
128	Pro Ser Gly Lys Gln Glu Ser Gly Ser Glu Ile His Val Glu Val Lys	
129		560 565 570
130	gca caa agc ttg gtt ata agc cct cca gct cct agt cct agg aaa act	1960
131	Ala Gln Ser Leu Val Ile Ser Pro Pro Ala Pro Ser Pro Arg Lys Thr	
132		575 580 585
133	cca gtt gcc agt gat caa cgc cgt agg tcc tgc aaa aca gcc cct gct	2008
134	Pro Val Ala Ser Asp Gln Arg Arg Arg Ser Cys Lys Thr Ala Pro Ala	
135		590 595 600
136	tcc agc agc aaa tct cag aca gag gtt cct aag aga gga gga gaa aga	2056
137	Ser Ser Ser Lys Ser Gln Thr Glu Val Pro Lys Arg Gly Gly Glu Arg	
138		605 610 615 620
139	gtg gca acc tgc ctt caa aag aga gtg tct atc agc cga agt caa cat	2104
140	Val Ala Thr Cys Leu Gln Lys Arg Val Ser Ile Ser Arg Ser Gln His	
141		625 630 635
142	gat att tta cag atg ata tgt tcc aaa aga aga agt ggt gct tgc gaa	2152
143	Asp Ile Leu Gln Met Ile Cys Ser Lys Arg Arg Ser Gly Ala Ser Glu	
144		640 645 650

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/700,906

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Input Set: I700906.RA

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147	655 660 665	
148	gca aaa caa aca caa act aaa gtc ata aaa cat ggt cct caa agg tca	2248
149	Ala Lys Gln Thr Gln Thr Lys Val Ile Lys His Gly Pro Gln Arg Ser	
150	670 675 680	
151	atg aac aaa agg caa aga aga cct gct act cca aag aag cct gtg ggc	2296
152	Met Asn Lys Arg Gln Arg Arg Pro Ala Thr Pro Lys Lys Pro Val Gly	
153	685 690 695 700	
154	gaa gtt cac agt caa ttt agt aca ggc cac gca aac tct cct tgt acc	2344
155	Glu Val His Ser Gln Phe Ser Thr Gly His Ala Asn Ser Pro Cys Thr	
156	705 710 715	
157	ata ata ata ggg aaa gct cat act gaa aaa gta cat gtg cct gct cga	2392
158	Ile Ile Ile Gly Lys Ala His Thr Glu Lys Val His Val Pro Ala Arg	
159	720 725 730	
160	ccc tac aga gtg ctc aac aac ttc att tcc aac caa aaa atg gac ttt	2440
161	Pro Tyr Arg Val Leu Asn Asn Phe Ile Ser Asn Gln Lys Met Asp Phe	
162	735 740 745	
163	aag gaa gat ctt tca gga ata gct gaa atg ttc aag acc cca gtg aag	2488
164	Lys Glu Asp Leu Ser Gly Ile Ala Glu Met Phe Lys Thr Pro Val Lys	
165	750 755 760	
166	gag caa ccg cag ttg aca agc aca tgt cac atc gct att tca aat tca	2536
167	Glu Gln Pro Gln Leu Thr Ser Thr Cys His Ile Ala Ile Ser Asn Ser	
168	765 770 775 780	
169	gag aat ttg ctt gga aaa cag ttt caa gga act gat tca gga gaa gaa	2584
170	Glu Asn Leu Leu Gly Lys Gln Phe Gln Gly Thr Asp Ser Gly Glu Glu	
171	785 790 795	
172	cct ctg ctc ccc acc tca gag agt ttt gga gga aat gtg ttc ttc agt	2632
173	Pro Leu Leu Pro Thr Ser Glu Ser Phe Gly Gly Asn Val Phe Phe Ser	
174	800 805 810	
175	gca cag aat gca gca aaa cag cca tct gat aaa tgc tct gca agc cct	2680
176	Ala Gln Asn Ala Ala Lys Gln Pro Ser Asp Lys Cys Ser Ala Ser Pro	
177	815 820 825	
178	ccc tta aga cgg cag tgt att aga gaa aat gga aac gta gca aaa acg	2728
179	Pro Leu Arg Arg Gln Cys Ile Arg Glu Asn Gly Asn Val Ala Lys Thr	
180	830 835 840	
181	ccc agg aac acc tac aaa atg act tct ctg gag aca aaa act tca gat	2776
182	Pro Arg Asn Thr Tyr Lys Met Thr Ser Leu Glu Thr Lys Thr Ser Asp	
183	845 850 855 860	
184	act gag aca gag cct tca aaa aca gta tcc act gta aac agg tca gga	2824
185	Thr Glu Thr Glu Pro Ser Lys Thr Val Ser Thr Val Asn Arg Ser Gly	
186	865 870 875	
187	agg tct aca gag ttc agg aat ata cag aag cta cct gtg gaa agt aag	2872
188	Arg Ser Thr Glu Phe Arg Asn Ile Gln Lys Leu Pro Val Glu Ser Lys	
189	880 885 890	
190	agt gaa gaa aca aat aca gaa att gtt gag tgc atc cta aaa aga ggt	2920
191	Ser Glu Glu Thr Asn Thr Glu Ile Val Glu Cys Ile Leu Lys Arg Gly	
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RAW SEQUENCE LISTING
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199	aac gat gaa aag atg aaa gca atg aag aga tca aga act tgg ggg cag	3064		
200	Asn Asp Glu Lys Met Lys Ala Met Lys Arg Ser Arg Thr Trp Gly Gln			
201	945 950 955			
202	aaa tgt gca cca atg tct gac ctg aca gac ctc aag agc ttg cct gat	3112		
203	Lys Cys Ala Pro Met Ser Asp Leu Thr Asp Leu Lys Ser Leu Pro Asp			
204	960 965 970			
205	aca gaa ctc atg aaa gac acg gca cgt ggc cag aat ctc ctc caa acc	3160		
206	Thr Glu Leu Met Lys Asp Thr Ala Arg Gly Gln Asn Leu Leu Gln Thr			
207	975 980 985			
208	caa gat cat gcc aag gca cca aag agt gag aaa ggc aaa atc act aaa	3208		
209	Gln Asp His Ala Lys Ala Pro Lys Ser Glu Lys Gly Lys Ile Thr Lys			
210	990 995 1000			
211	atg ccc tgc cag tca tta caa cca gaa cca ata aac acc cca aca cac	3256		
212	Met Pro Cys Gln Ser Leu Gln Pro Glu Pro Ile Asn Thr Pro Thr His			
213	1005 1010 1015 1020			
214	aca aaa caa cag ttg aag gca tcc ctg ggg aaa gta ggt gtg aaa gaa	3304		
215	Thr Lys Gln Gln Leu Lys Ala Ser Leu Gly Lys Val Gly Val Lys Glu			
216	1025 1030 1035			
217	gag ctc cta gca gtc ggc aag ttc aca cgg acg tca ggg gag acc acg	3352		
218	Glu Leu Leu Ala Val Gly Lys Phe Thr Arg Thr Ser Gly Glu Thr Thr			
219	1040 1045 1050			
220	cac acg cac aga gag cca gca gga gat ggc aag agc atc aga acg ttt	3400		
221	His Thr His Arg Glu Pro Ala Gly Asp Gly Lys Ser Ile Arg Thr Phe			
222	1055 1060 1065			
223	aag gag tct cca aag cag atc ctg gac cca gca gcc cgt gta act gga	3448		
224	Lys Glu Ser Pro Lys Gln Ile Leu Asp Pro Ala Ala Arg Val Thr Gly			
225	1070 1075 1080			
226	atg aag aag tgg cca aga acg cct aag gaa gag gcc cag tca cta gaa	3496		
227	Met Lys Lys Trp Pro Arg Thr Pro Lys Glu Glu Ala Gln Ser Leu Glu			
228	1085 1090 1095 1100			
229	gac ctg gct ggc ttc aaa gag ctc ttc cag aca cca ggt ccc tct gag	3544		
230	Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr Pro Gly Pro Ser Glu			
231	1105 1110 1115			
232	gaa tca atg act gat gag aaa act acc aaa ata gcc tgc aaa tct cca	3592		
233	Glu Ser Met Thr Asp Glu Lys Thr Thr Lys Ile Ala Cys Lys Ser Pro			
234	1120 1125 1130			
235	cca cca gaa tca gtg gac act cca aca agc aca aag caa tgg cct aag	3640		
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VERIFICATION SUMMARY
PATENT APPLICATION US/09/700,906

DATE: 04/05/2001
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Input Set: I700906.RAW

Line ? Error/Warning

Original Text
